

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
13 January 2005 (13.01.2005)

PCT

(10) International Publication Number
WO 2005/004181 A1

(51) International Patent Classification⁷: **H01F 41/02**

(21) International Application Number:
PCT/SE2004/001007

(22) International Filing Date: **23 June 2004 (23.06.2004)**

(25) Filing Language: **English**

(26) Publication Language: **English**

(30) Priority Data:
0301973-4 4 July 2003 (04.07.2003) SE

(71) Applicant (for all designated States except US): **PAN-POWER AB [SE/SE]; P.O. Box 7028, S-250 07 Helsingborg (SE).**

(72) Inventors; and

(75) Inventors/Applicants (for US only): **EKELÖF, Jürgen [SE/SE]; Krokslättsгатan 45 A, S-431 67 Mölndal (SE). ERICSSON, Allan [SE/SE]; Jonan Banérs gatа 27, S-254 40 Helsingborg (SE).**

(74) Agent: **AWAPATENT AB; P.O. Box 11394, S-404 28 Göteborg (SE).**

(81) Designated States (unless otherwise indicated, for every kind of national protection available): **AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.**

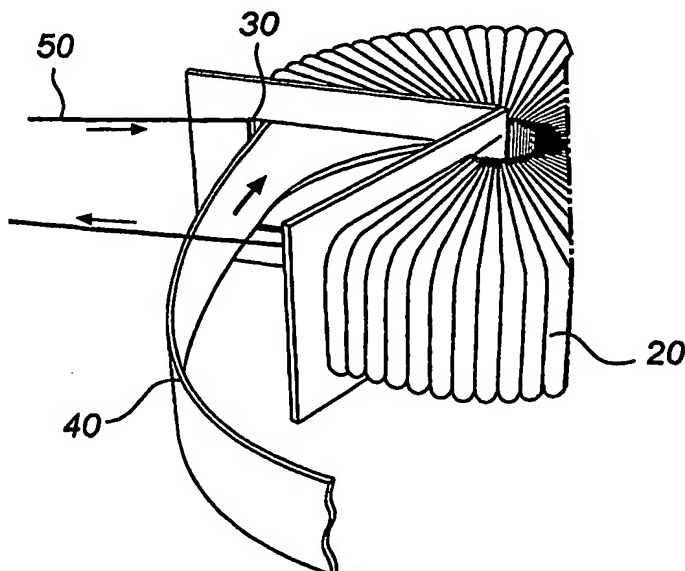
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): **ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).**

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **MANUFACTURE OF TOROIDAL TRANSFORMERS**



(57) Abstract: The present invention relates to a novel and efficient method for manufacture of toroidal transformers, a bobbin for manufacture of toroidal transformers and a system for performing said method for manufacture of toroidal transformers. Said method for manufacture of toroidal transformers has properties superior for automated mass production and comprises the steps of arranging a coil around the periphery of at least one hollow bobbin of elongated shape and of flexible material; bending said at least one bobbin, together with said coil, so that the bobbin ends are brought towards each other, one of said bobbin ends defining an opening; and feeding a ribbon of magnetic material through said opening, so that said ribbon is being wound a required amount of tightly packed winding turns inside said bobbin until essentially the whole interior cavity of said bobbin is filled, said ribbon thereby forming a core.

WO 2005/004181 A1